CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.09/BA/CSR-02/1065/CEMENT/2015-16 Date: 08.02.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. Bharath Adithya** # 120, Thindlu, Vidyaranyapura (P), Bangalore - 97.
***NAME OF THE WORK**	:	Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	06.02.2016
PERIOD OF TESTING	:	06.02.2016 to 08.02.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009).	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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****

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Job No.: CTCE/BBMP/W.No.09/BA/CSR-02/1065/AGG/GR/2015-16 : 08.02.2016

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Bharath Adithya**
# 120, Thindlu, Vidyaranyapura (P), Bangalore - 97.

*** Name of Work** : Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 06.02.2016

Date of Testing : 08.02.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.44	95-100	85-100
20	37.80	30-70	0-20
10	12.37	10-35	0-5
4.75	2.51	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.09/BA/CSR-02/1065/SAND-Gradation/2015-16 : 08.02.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Bharath Adithya**
# 120, Thindlu, Vidyaranyapura (P), Bangalore - 97.

*** Name of Work** : Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 06.02.2016

Date of Testing : 08.02.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.80	90-100	90-100	90-100	95-100
2.36	78.10	60-95	75-100	85-100	95-100
1.18	59.50	30-70	55-90	75-100	90-100
600 Micron	38.30	15-34	35-59	60-79	80-100
300 Micron	12.10	5-20	8-30	12-40	15-50
150 Micron	3.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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T-2377

Job No.: CTCE/BBMP/W.No.09/BA/CSR-02/1065/CC Solid Block/2015-16 : 08.02.2016

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Bharath Adithya** # 120, Thindlu, Vidyaranyapura (P), Bangalore - 97.
* Name of the Work	: Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016
Sample Received on	: 06.02.2016
Date of Testing	: 08.02.2016
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.35	261.4	3.27	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.82	263.8	3.30	
3	Block 3	33.48	262.4	3.28	
4	Block 4	35.87	260.9	3.26	
5	Block 5	36.39	261.9	3.27	
6	Block 6	37.65	263.2	3.29	
7	Block 7	36.52	263.7	3.30	
8	Block 8	35.45	262.1	3.28	

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Job No.: CTCE/BBMP/W.No.09/BA/Fencing/2015-16

08.02.2016

TEST REPORT ON CHAIN LINK FENCING WIRE (8th Gauge)

Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Bharath Adithya**
120, Thindlu, Vidyaranyapura (P), Bangalore - 97.

Name of work : Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016

Samples ID : Samples Supplied By Agency

Sl.No	Description	Result
1	Diameter	4.04 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.185 Kg

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.09/BA/MS Angle/2015-16

08.02.2016

TEST REPORT ON STRUCTURAL STEEL

Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Bharath Adithya**
120, Thindlu, Vidyaranyapura (P), Bangalore - 97.

Name of work : Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016

Samples ID : Samples Supplied By Agency

Specimen Size : ISA-65X65X6mm (1m Length)

Sl.No	Description	Result
1	Thickness	6.01 mm
2	Width	65.0 mm
3	Weight / Meter	5.85 Kg

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Job No.: CTCE/BBMP/W.No.09/BA/MS Pipe/2015-16 08.02.2016

TEST REPORT ON M.S PIPE (38mm Dia)

Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Bharath Adithya**
120, Thindlu, Vidyaranyapura (P), Bangalore - 97.

Name of work : Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016

Specimen Size : M.S Pipe 38mm Dia

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	2.02 mm
2	Inner Diameter	38.09 mm
3	Outer Diameter	42.13 mm
4	Weight / Meter	1.895 kg

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Job No.: CTCE/BBMP/W.No.09/BA/CSR-02/1065/CUBE/2015-16 11.03.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	: **Mr. Bharath Adithya** # 120, Thindlu, Vidyaranyapura (P), Bangalore - 97.
*** Name of the work**	: Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 11.03.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.02.2016	11.03.2016	8.176	395.8	17.59
2	12.02.2016	11.03.2016	8.063	359.3	15.97
3	12.02.2016	11.03.2016	8.142	372.6	16.56

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.09/BA/CSR-02/1065/CUBE/2015-16 11.03.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	: **Mr. Bharath Adithya** # 120, Thindlu, Vidyaranyapura (P), Bangalore - 97.
*** Name of the work**	: Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 11.03.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.02.2016	11.03.2016	8.086	367.8	16.35
2	12.02.2016	11.03.2016	8.132	381.5	16.96
3	12.02.2016	11.03.2016	8.215	395.6	17.58

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Job No.: CTCE/BBMP/W.No.09/BA/CSR-02/1065/CUBE/2015-16 11.03.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	: **Mr. Bharath Adithya** # 120, Thindlu, Vidyaranyapura (P), Bangalore - 97.
*** Name of the work**	: Vidyaranyapura Suvarna Mahotsava Play Ground fencing and development works in Ward No. 09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{15}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 11.03.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.02.2016	11.03.2016	8.254	362.4	16.11
2	12.02.2016	11.03.2016	8.369	383.9	17.06
3	12.02.2016	11.03.2016	8.412	404.7	17.99

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Bharath Adithya**
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Reference : EE/BTP/BBMP/E-PMT/281/2015-16 Dated: 11.03.2016

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28^{th} day

Sample Received on : 11.03.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.02.2016	11.03.2016	8.125	359.7	15.99
2	12.02.2016	11.03.2016	8.236	367.4	16.33
3	12.02.2016	11.03.2016	8.347	382.1	16.98

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